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"PATENT"

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of A. Gordon Alexander et al.	Before the Examiner Ellen M. McAvoy
U. S. Serial No. 10/678,469	Confirmation Number: 3345
Filed: October 3, 2003	Group Art Unit: 1764
FUNCTIONAL FLUIDS HAVING LOW BROOKFIELD VISCOSITY USING HIGH VISCOSITY-INDEX BASE STOCKS, BASE OILS AND LUBRICANT COMPOSITIONS, AND METHODS FOR THEIR PRODUCTION AND USE	Family Number: P2002J110 US2

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

Supplementary Information Disclosure Statement

Applicants have already cited to the United States Patent and Trademark Office the reference identified as WO 02/064710 (see IDS submitted May 12, 2004).

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted to the Commissioner for Patents facsimile number 1-571-273-8300 on the date shown below.

Jacqueline Wright — Print name of person signing certification

Jacqueline Wright — Signature

5/18/07 — Date

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The attention of the Examiner is directed to that reference because it disclosed sufficient information regarding a 4 cSt base stock made by synthesizing a Fischer-Tropsch product from CO and H_2, hydrocracking/hydroisomerizing the Fischer-Tropsch product, fractionating the hydrocrackate/hydroisomerate into a base oil fraction and reducing the pour point of the base oil fraction, to determine and calculate that it produced a product which had a measured-to-calculated viscosity ratio of less than 1.2. In Table 4, the base oil of Example 3 had a KV @100°C of 4.234 cSt, a KV @40°C of 19.35 cSt, a VI of 125, a CCS viscosity @-35°C of 2117 cP. Presuming typical hydrocarbon oil densities at -35°C to range from 0.75 to 0.90 a range of theoretical CCS viscosities in cP at -35°C can be calculated. This is done by (1) determining the KV of the fluid at -35°C which is done by extrapolating from the KVs at 100°C and 40°C, to give a KV at -35°C of 3057 cSt, and (2) converting the KV @ -35°C in cSt into a viscosity at -35°C in cP by multiplying the KV @-35°C in cSt by fluid density, in this case by a range of typical hydrocarbon oil densities to secure a viscosity range of: 3057 x 0.75 = 2292.75 cP to 3057 x 0.9 = 2751.3 cP. From this it is possible to determine a range of measured to calculated viscosity ratios of from 2117/2292.75 = 0.92 and 2117/2751.3 = 0.77. Thus, the base oil of Example 3 in Table 4 of WO 02/064710, presuming a liquid hydrocarbon density at -35°C anywhere between 0.75 to 0.90, would have a measured to calculated viscosity ratio between 0.92 to 0.77.

Respectfully submitted,

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[X] Pursuant to 37 CFR 1.34(a)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use as many sheets as necessary)

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Complete if Known	
Application Number	10/678,469
Filing Date	October 3, 2003
First Named Inventor	A. Gordon Alexander et al.
Art Unit	1764
Examiner Name	Ellen M. McAvoy
Attorney Docket Number	NLF-0321
Family Number	P2002J110 US2

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, columns, lines, where relevant passages or relevant figures appear
	AA	US-			
	AB	US-			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of cited document	Pages, columns, lines, where relevant passages or relevant figures appear	T[6]
	BA	WO 02/064710 A2	08/22/2002	Shell Internationale Research		
	BB					
	BC					
	BD					
	BE					
	BF					

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1]Applicant's unique citation designation number (optional). [2]See Kinds Code of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3]Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4]For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5]Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6]Applicant is to place a check mark here if English language Translation is attached.

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